

19990705.ba v02_n599.bam.990705 v02_n600.bam.990705

>From ???@??? Tue Jul 06 04:54:52 1999
Message-Id: <199907051305.d65D5i012770@sco.theporch.com>
Date: Mon, 5 Jul 1999 08:02:36 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2599

BOATANCHORS Digest 2599

Topics covered in this issue include:

- 1) The last 'official' CW?
by midshires@cix.co.uk (Andrew Emmerson)
- 2) BAs, finitude, trusts
by mnhopkins@juno.com
- 3) Re: Command Set makeups
by David Stinson <arc5@ix.netcom.com>
- 4) Beam filter advice?
by "Roberta J. Barmore" <rbarmore@indy.net>
- 5) Galaxy 300 question
by john <johnmb@mindspring.com>
- 6) Items for Sale!
by <davidh@getnet.com>
- 7) Re: 100 kHz calibrator Crystals, tube style
by "Tom Bridgers" <tarheel6@email.msn.com>
- 8) RE: Command Set makeups
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 9) Beam Filters, RCC
by "Roberta J. Barmore" <rbarmore@indy.net>
- 10) Re: Command Set makeups
by William Donzelli <aw288@osfn.org>
- 11) Re: Command Set makeups
by William Donzelli <aw288@osfn.org>
- 12) Need info on mica caps
by zeitler@ibm.net
- 13) FS: Drake TR-4/MS-4
by Dick Dillman <ddillman@igc.apc.org>
- 14) R107T/Literature FS
by don merz <71333.144@compuserve.com>
- 15) 'nother friction-drive parts source?
by "Tom R. Rice" <tomrice@netcom.com>
- 16) Fading paints
by "Prof. Arthur I. Larky" <ail0@lehigh.edu>
- 17) McMurdo schematic
by ray <rcmorris@mars.ark.com>
- 18) FS: Kenwood manuals

by Avery Comarow <acomarow@USNEWS.COM>
19) FS: Clamp-On Ammeter
by Dick Dillman <ddillman@igc.apc.org>
20) 30L1 help
by "Paul Bernhard Sr." <w2tu@email.msn.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 4 Jul 1999 13:29 +0100 (BST)
From: midshires@cix.co.uk (Andrew Emmerson)
Subject: The last 'official' CW?
To: Old Tube Radios <boatanchors@theporch.com>
CC: midshires@cix.co.uk
Message-Id: <memo.19990704132917.30419n@midshires.compulink.co.uk>

Probably not by any chalk but ZL1ABS in New Zealand sent me this note:

Date: Sun, 04 Jul 1999 16:39:38 +1200
Subject: Navy CW SK

A picture in the newspaper and an item on the 6pm TV news on Friday: the Royal NZ Navy sends it last message on radio with morse code.

Andrew Emmerson G8PTH

To: Old Tube Radios <boatanchors@theporch.com>
Cc: Drakrat@AOL.com, JHopkinsRN@juno.com
Date: Sun, 4 Jul 1999 08:30:49 -0500
Subject: BAs, finitude, trusts
Message-ID: <19990704.083101.-95803.1.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: mnhopkins@juno.com

It always amazes new lawyers. Someone comes into your office for a will and uses the phrase, "if I die." They don't accept their own finite nature.

When we die, I have learned from a lot of broker and estate work on v. tube stuff, the typical pattern is for our friends, be they such, to come in and steal the best pieces of equipment for themselves, offering to liquidate the rest. Locally, I get the v. tube stuff from several active hams who don't steal things so they keep getting the PIA task of

clearing a deceased ham's shack. My record is 300 + rigs in a full two car garage with attached workshop stacked to eye level. Part of that went to Tucker's Electronics, but I'm not sure that is what sunk it.

But as for me, I put the Tecraft Reference Collection in a trust and left instructions that a local ham club name a new trustee "for the benefit of amateur radio." Texas is the easiest state in which to set up a trust, but just about any legal practitioner can show you how. I do not think you should write your own will as it is full of traps set by my past experiences, not by tricky lawyers.

In the attic, I put the Tecraft stuff in, and on, and around a thrift store stereo cabinet, clearly labeled. For the rest, I leave notes attached to most everything with information about how much paid, etc as a guide to future problems which will fall to KC5FDL, who is 14 now, who will be QCWA eligible at 35, and who by then will have had the life experience of clearing his old man's estate.

de ab5L, michael in dallas, MNHopkins@JUNO.com
Student of Tecraft, ICM and Six Meters' Golden age: 1957-58
Box 226841, Dallas, TX 75222
Banned for life from QRP-L mailer for various truths.

Message-ID: <377F681F.2F3A1BE9@ix.netcom.com>
Date: Sun, 04 Jul 1999 08:56:47 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Command Set makeups
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill Donzelli shamelessly bragged:>

>...just obtained a very nice ARA/ATA set (missing some parts -
>GUESS WHICH ONES!)....
The shock mounts, of course! Only those specially blessed
by the Boatanchors Gods are bestowed
ARA/ATA shock mounts (beam, beam....)

That's a very nice catch, Bill. There are very few complete
ATA/ARA sets around in any configuration and I don't think
most of us will hold the shock mounts against you ;-).

>How were the setups (the different transmitter/receiver iterations)
>decided upon....
On paper, each aircraft's erection manual specified which radios

should be installed and in what configuration. In reality, the mechanics installed them according to the mission requirements and the equipment that was either available or could be easily stolen from a neighboring airfield.

One of the strengths of Aircraft Radio Corp's Command Set design is it's modularity- the ability to change transmitters, receivers and control heads quickly and according to the need of the moment. The Navy was especially "nimble" in devising new and interesting combinations, especially late in the war. The Army Air Corps tended to stick more "by the book" in issuing the specified set of radio pieces to each type of aircraft. That probably had more to do with the relative ease of supply to Europe vs. the Pacific.

>...How did the Navy keep track of which sets coming from
>the different manufacturers had some specific setup?
I have not made a study of contracts (guess I should!).
The best info I have says that when the Navy ordered
500 type "X" aircraft, they ordered 650 of the
radio sets specified for that aircraft
(the extras were for spares). When the aircraft got
"in theater," the game of "musical radios" began,
with many mix-n-match sets depending on mission and supply.
I have a photograph of a south pacific airfield where
an ARA/ATA 2RX/2TX set is installed in the control hut
(can't call something made of grass and bamboo a "tower" :)
and is used for air traffic control.

>...my set has the 2.1-3 and 3-4 MHz transmitters,
>and the 0.19-0.55, 0.55-1.5, and 1.5-3 MHz
>receivers..... it seems dumb to me to have 3-4 MHz transmitter
>coverage but no corresponding receiver coverage...
That is, in fact, a valid set for an aircraft which
flew within the continental United States.
Between the early 1930s and late 1950s pilots could still
get lost, especially at night. Air traffic control in the
U.S. standardized on the "radio range" system.
Standard frequencies were adopted so that most aircraft
could contact a tower regardless of their location.
"Standard" frequencies while flying within CONUS were:

3105 KC Aircraft to tower primary.

6210 KC Aircraft to tower secondary.

278 KC Tower to aircraft primary.

(The LF freq. was short-range, so towers didn't
interfere with each other).

So your 3-4 transmitter was there to talk on 3105 KC
and the 190 to 550 KC receiver was there to listen on 278 KC.
The 500-1500 receiver is there for direction finding using
broadcast stations. The 2 MC receiver and transmitter pair
are for aircraft-to-aircraft communication.
Because of the 2 MC air-to-air frequency, I suspect this
set was either from a training command or was one
of the sets issued to the Civil Air Patrol after the war.

Hope to hear it on the air some day!

73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Date: Sun, 4 Jul 1999 09:04:47 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Beam filter advice?
Message-ID: <Pine.SUN.4.10.9907040858280.25650-100000@indy1>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Picked up one of the WW II "Beam Filters" used in aircraft not too long ago, which if I remember right, is a switchable filter--sharp 1020 cps bandpass, sharp 1020 notch, and (level-matched?) straight through.

Can't seem to find the "CQ" art. that spoke of these; does anyone know what sort of source and load Zs they were happiest with? (I do remember a non-invasive mod for variable bandwidth--a pot from input to output that can be mounted externally and connections taked onto what's already there)

Tryin' to come up with something to help out on the noise & clutter--used to use a HB audio filter on the HW-16 that allowed a nice wide (IF) bandwidth but kinda made the center of the passband stand out.

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Message-Id: <3.0.3.32.19990704110811.00bf2448@mindspring.com>

Date: Sun, 04 Jul 1999 11:08:11 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Galaxy 300 question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm working on a Galaxy 300 (neat looking rig) and wonder if someone can tell me how the octal plug that's in the VOX connector socket is jumpered?

Thanks and happy holidays to all!
/John

Message-Id: <199907041532.d64FWv002035@sco.theporch.com>
Subject: Items for Sale!
Date: Sun, 4 Jul 99 08:32:31 -0700
From: <davidh@getnet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

I have the following items for sale. Shipping is included unless stated.
Pictures and more details can be seen at:

<http://www.getnet.com/~davidh/forsale.html>

"Rare" Echophone EC-113 Receiver - \$85 + shipping

Hallicrafters S-38B Chassis - \$20 + Shipping

Hallicrafters S-38B Cabinet - \$15 + shipping

Eico 950B Capacitor Checker - \$15 + shipping

872 Ceramic Tube Sockets + Two 872 Tubes - \$20 Shipped

Reply direct to me, not to the list please

73,

Dave N7RK

Dave N7RK - Webmaster CADXA
Phoenix, Arizona *DXCC Honor Roll* *WAZ#23 - 75 Meter SSB*

ex-N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor Collector Extraordinaire preferring Hallicrafters, National
and what ever else looks interesting!

E-Mail: davidh@getnet.com
My Home Page: <http://www.getnet.com/~davidh>

Visit the Central Arizona DX Association Home page - <http://cadxa.org>

From: "Tom Bridgers" <tarheel6@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 100 kHz calibrator Crystals, tube style
Date: Sun, 4 Jul 1999 12:13:32 -0400
Message-ID: <0920b2025160479CPIMSSMTPU08@email.msn.com>

Hi Kim...

Wow ... as luck would have it I just bought an old tube type calibrator
(a Bud mfr) but it had no crystal. Would like to buy both of your crystals.
Your price of \$25 for both is fine with me...

thanks and 73s

-tom KE4RHH

-----Original Message-----

From: Kim Herron <kherron@voyager.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Saturday, July 03, 1999 11:19 AM
Subject: 100 kHz calibrator Crystals, tube style

>Hi Gang,

>

> In my rummaging through my glass collection (tubes) I've found two old
>octal tube type 100 kHz calibrator crystals These are Northern Engineering
>Labs type T9-D crystals. The only other number on the crystal is
>019-201915. These appear to be new, other than they are in old tube boxes.
> I'm guessing that they were surplus of some kind I see no military
>numbers that I recognize, so you may know more about these item that I.
>That wouldn't take much. Anyway, I'll let these go for \$15.00 a piece
>shipped or \$25.00 for the pair. If you can use them, they'll make a good

>spare, at least. I have no way to determine the pinout of these two, but
>if you have a circuit to plug them into, it wouldn't take too long. let me
>know if you need them.

>

>Thanks!!

>

>Kim W8ZV

>

Date: Sun, 4 Jul 1999 12:26:20 -0400
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: Command Set makeups
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199907041226_MC2-7BBF-9BA7@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Group,

My Father-In-Law flew B-24's in the Pacific, so he was talking about the
SCR-274 instead of the ATA/ARA, but the same procedures probably applied.=
=

When I married his daughter, I still had some of my Command Set collectio=
n.

I remember that he recognized it, and commented that he recalled turning=
in the receivers and transmitters and drawing different ones sometimes wh=
en
they flew into a different area, as after a ferry run.

73,
Robert Downs
WA5CAB
Houston

Date: Sun, 4 Jul 1999 11:53:38 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Beam Filters, RCC
Message-ID: <Pine.SUN.4.10.9907041120171.26544-100000@indy2>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Thanks to everyone who responded about the beam filter. Not sure what version I have--seems to be ex-Navy (US) from the "U(anchor)S" stamp, has two 1/4" output jacks, a flying-lead input plug (PL-55 marked "1136-1 UTC") and an angled front panel marked for either way up mounting (horizontally or vertically, I presume). No extra terminals on the internal connection strip, so it is either 4K or 600R and the only way to find out is to try it! Panel is labelled "BEAM FILTER" at the top, "N. A. F. 68304" and a serial number at the bottom. Nice little case, modern accessory filters should be so solid and clean.

...And for those who suggested an active filter, I have built and used 'em and find them not really well-suited to Morse work, or at least simple ones aren't, especially plugged in to the output of a receiver. Too prone to do annoying things when overdriven and they call for knocking the level down and then hanging an amp on the output, way too much stuff for a simple job. (Pat Hawker shows a neat one in the latest set of Technical Topic reprints; but it's not suited to these lists without subbing a dozen tubes for the original active devices; a tube comparator, you don't wanna build! Or maybe you do if you have a lot of free time). (Yes, there are plenty of ways to make an active filter act nice, both subtle things per Deane Jensen and overtly simple ones like a clipper at the input and real audio amp--6V6, LM380, something with some oomph--at the output, but that's fancier than I'm looking for).

My old set-up, which I may yet clone, started out with a nifty clipper (three switchable steps--1N34s, 1N34s, 1N4007s) and then the filter, nothing more than a 5mH RFC & condenser tuned to about 700cps with small condensers to top-couple the signal in and out. Worked well, despite a likely-crummy Q. The clippers whomped the noise bursts most severely and the filter took away the clipping artifacts while making sigs near Fo stand out. Lost it one of the times I moved house. If I can dope out the beam filter, adding a stepped clipper will be easy. (Advantage over the continuously-variable ones? No batteries! ...Though a triode starved for plate volts will do a very fine job here as well).

Next topic! Does anyone know what happened to the "Rag Chewer's Club?" Used to be the easiest wallpaper to get; received one under my first call about a week after going on the air! The '97 HB still talks about the award but you don't see 'em on hamshack walls any more. :(It would seem a natural for tube-fan on-the-air gatherings, you can't hardly swap the dope about your rigs, haze each other over keying & note and so on in much less than the required half-hour.

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Sun, 4 Jul 1999 12:42:12 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Command Set makeups
Message-ID: <Pine.SUN.3.91-FP.990704123912.12010C-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> There are five receivers in the ARA lineup covering .19-9.1 MHz - same
> ones as in the HF portion of the ARC-5 lineup. Sounds like you're
> missing the CBY/SCT-46105 3-6MHz receiver.

I think I have the "proper" receivers, because the control box has the
corresponding dials.

William Donzelli
aw288@osfn.org

Date: Sun, 4 Jul 1999 13:06:34 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Command Set makeups
Message-ID: <Pine.SUN.3.91-FP.990704124223.12010D-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Donzelli shamelessly bragged:>

Damn right. Do you want all of the empty boxes for everything?

> The shock mounts, of course! Only those specially blessed
> by the Boatanchors Gods are bestowed
> ARA/ATA shock mounts (beam, beam....)

The relay shockmount, for some reason was spared. I have a mount for
a MD-7/ARC-5 back home - but we know that "just ain't right". Trade,
anyone? Anyone?

> 278 KC Tower to aircraft primary.
> (The LF freq. was short-range, so towers didn't
> interfere with each other).

Why were the towers given such big transmitters? Even the small variety. BC-329-*, packs a good punch. Sure, they didn't need to be full power all of the time...

William Donzell
aw288@osfn.org

From: zeitler@ibm.net
Message-ID: <007601bec63f\$4241cb40\$18dd6520@km3g>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need info on mica caps
Date: Sun, 4 Jul 1999 10:04:16 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have two batches of mica caps that I picked up at a swap meet but need to know the current ratings.

First one is Cornell Dublier Type 9 H 400pF 2500vdc/5000vdc max

Second one is Sangamo Type A2 LH 400pF 2500vdc/5000vdc max.

I have looked in my old Allied and WRL catalogs and can not find the current ratings on these. They are good sized units around 3/4 inch tall and 1 1/2 inches wide and abt 1 inch deep.

Lane
Ku7i
San Diego

Date: Sun, 4 Jul 1999 10:22:46 -0700 (PDT)
Message-Id: <2.2.16.19990704100804.3dc7a6a4@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: FS: Drake TR-4/MS-4

FOR SALE: Drake TR-4 tube type SSB/CW/AM transciever and MS-4 speaker/power supply with original manual. The TR-4 is in good physical condition with some small spots of missing paint on the top of the cabinet. The front panel is good with all original knobs. However, while the tubes and pilot lights

light when plugged in it does not work on receive. The transmitter is untested. The MS-4 is in good condition. The original manual, with a duct tape repair to the spine, is included. \$125. Local pickup preferred. Otherwise add costs for UPS Versa-Pack packing and shipping from San Francisco, CA 94110.

Regards,

Dick

Dick Dillman, W6AWO
Chief Operator at K6KPH of the Maritime Radio Historical Society
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Sun, 4 Jul 1999 15:28:51 -0400
From: don merz <71333.144@compuserve.com>
Subject: R107T/Literature FS
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199907041531_MC2-7BC4-3251@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
charset=us-ascii
Content-Disposition: inline

BA Gear & Literature For Sale

CONTACT: Don Merz, N3RHT, 47 Hazel Drive, Mt. Lebanon, PA 15228
71333.144@compuserve.com

British military R107T HF receiver. The tag says "Reception Set R107T Z.A. 25266 Seial Number 16246 F.R.C." This is a large gray box that weighs about 100 pounds. It has a semicircular dial that covers 3.0 to 17.5 mc. The dial is driven by a concentric knob where the outer ring is coarse tuning while the inner knob part is fine tuning similar to the British R1155 receiver, the Swan transceivers and many other radios. Controls are RF Gain, AF Gain, BFO, BFO/AVC, Wide/Narrow IF, Aerial Trimmer and Audio Filter on/off. There are connections for a long wire antenna, dipole and earth. Power connectors for AC and DC supplies are on the front panel along with a T/R/Muting connection, 2 phone jacks, a line out and an external power output. There is also a front-panel mounted speaker. All of this control and connector clutter makes for a butt-ugly (read "beautiful BA") front panel. There are a number of holes on the front panel that appear to be original but are unused for some reason. There are also two steel handles at the left and right edges of the front panel. One of these is loose at one end because

the mounting bolt is broken off (and is still in the handle). The front panel speaker has been replaced with one that is too large (you can't tell from the outside though). Working kind of okay. It obviously needs restoration. Front cover with schematic included. I think this is a WWII-era set. I just recently bought this but I am out of space. \$125 or best offer. I have a wooden shipping crate for this radio.

LITERATURE

Heathkit UA-1 12-Watt Amplifier original manual. Good. \$8 PPD
Metronix Tube Substitution Guide 1962-63 Edition. 6x11" format. \$5 PPD
Heathkit AG-7 Audio Generator original manual. With oversize wiring pictorial. \$8 PPD
Heathkit AM-2 Reflected Power Meter original manual. Good. \$8 PPD
ARRL Antenna Book, 14th ed, 1984. Good. \$9 PPD
Moyer and Wostrel, Radio Handbook, 1931, McGraw Hill, 886 pages, decent coverage of broadcast gear especially W.E. 105-C transmitter and marine quenched and rotary gap designs. Also lots of un-radio stuff like phototubes and sound motion pictures. Nice hardback. \$12 PPD
International Rectifier Corporation Engineering Handbook, 1964. 128 pages. Selenium dominates but silicon is covered. \$8 PPD
Radio Magazine, All in Good shape with covers and spines intact. \$2 each
1937: 3,4,5,6,10,11
1941: 7,11
1942: 2,3
Sams Tube Substitution Guides (full size, not pocket editions), \$4 each PPD
1961 V#3, 1966 V#9, and 1968 V#11
H. G. Cisin, 11,000 Direct Tube Substitutes, 1963, \$3.50 PPD
Middleton Tube Substitution Guidebook, Tube Caddy Edition, 1974. \$3.50 PPD
Cornell Dubelier CAPACITOR magazines. This set is 77 issues covering 1946 to 1954. Incomplete but no duplicates. CAPACITOR had some very nice articles, many of them ham-radio related. \$12 PPD for all 77 issues.
Cornell Dubelier CAPACITOR magazines. This set is 55 issues covering 1950 to 1956. Incomplete but no duplicates. CAPACITOR had some very nice articles, many of them ham-radio related. \$9 PPD for all 77 issues.
Teletype Manual Set for Model 33 including 310B Volumes 1 and 2 and 1184B Parts Manual. All in good shape in Teletype binders. \$15 PPD
Another Teletype Manual Set for Model 33 including 310B Volumes 1 and 2 and 1184B Parts Manual. All in good shape in Teletype binders. \$15 PPD
Teletype Model 35 Bulletin 280B Volume 2 ONLY. Good in TT Binder. \$7 PPD
Teletype Model 32 Bulletin 1210B Parts ONLY. Good in TT binder. \$7 PPD
Teletype Model 33 Bulletin 1184B Parts ONLY. Excellent in TT binder. \$6 PPD

CONTACT: Don Merz, N3RHT, 47 Hazel Drive, Mt. Lebanon, PA 15228
71333.144@compuserve.com

From: "Tom R. Rice" <tomrice@netcom.com>

Message-Id: <199907041951.MAA06815@netcom11.netcom.com>
Subject: 'nother friction-drive parts source?
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sun, 4 Jul 1999 12:51:38 -0700 (PDT)
Cc: glowbugs@piobaire.mines.uidaho.edu (free glowbugs)
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

A recent inquiry regarding friction-drive parts sources
triggered the following response:

In answer to your query, I've just spotted an ad
in the latest issue (Jun 99) of R & D Magazine:

Ultra High Friction Parts
Material ML6 Ups Productivity!
Superior to rubber an urethane.
We apply to steel, bronze, nylon, ceramics.
etc., etc., etc.

(picture of shafts, wheels, etc., with "rubber"
friction-drive elements)

Meridian Laboratory
2415 Evergreen Road
PO Box 620156
Middleton, WI 53562

phone: 800 837 6010
or: 608 836 7571
fax: 608 831 0300

It's not clear from the ad whether they do custom/prototype
work, repair/replacement of worn elements or are hot for
big OEM jobs. In any case, it's probably worth giving them
a call.

73 de WB6BYH

--

"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com

Message-ID: <377FB02E.34B0@lehigh.edu>
Date: Sun, 04 Jul 1999 19:04:14 +0000
From: "Prof. Arthur I. Larky" <ail0@lehigh.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fading paints
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

We had a printer that produced its output using Kodak Linagraph paper which developed under ultra-violet light and darkened to un-usability fairly soon under regular light. We had a spray can of stuff that preserved the image by coating the paper with an orange-looking layer that still allowed you to read the printing. I have some copies that are 20 years old and appear un-changed (but weren't kept in direct light.)

The stuff was made by Kodak expressly for use with Linagraph paper.

Anyone want an orange-ish boatanchor?

Art K3HBA

Message-Id: <3.0.6.32.19990704161113.0079e1c0@mars.ark.com>
Date: Sun, 04 Jul 1999 16:11:13 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: ray <rcmorris@mars.ark.com>
Subject: McMurdo schematic
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings Group,

Got a mountain to climb this time! I just picked up (with difficulty and a possible hernia) a McMurdo Silver floor model - Masterpiece IV. Tube lineup is (6) 6D6, (3)76, (6) 42 , (1)85 (1) 6B7 (2) 5Z3. Question- Anyone have a schematic? Will pay all costs. TIA .

Ray. VE7FBJ.
rcmorris@mars.ark.com

<http://mars.ark.com/~rcmorris/>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Avery Comarow <acomarow@USNEWS.COM>
Subject: FS: Kenwood manuals
Cc: dcboanchors@qsl.net
Date: Sun, 4 Jul 1999 21:05:23 -0400
Message-Id: <01052303101658@usnews.com>

Excellent copies of operating and service manuals for TS-820S (service manual is A.G. Tannenbaum commercial copy). \$12 for operating manual, \$22 for service manual, \$30 for both. Prices include first-class shipping.

Avery W40GK

Date: Sun, 4 Jul 1999 20:00:10 -0700 (PDT)
Message-Id: <2.2.16.19990704194528.4837cb22@pop.igc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.apc.org>
Subject: FS: Clamp-On Ammeter

Clamp-on AC Ammeter Set Columbia Electric "Tong-Test" - If you have some serious AC current to measure this is the baby for you. If you don't you can use it to scare the bejeezus out of the kids. The Tong-Test consists of a clamp-on base with handle and trigger that opens the menacing inductive loop and closes it with a clack that says "I mean business". The loop goes around the electrical cable you wish to measure. Into this snap one of four meters with ranges from zero to 400, 500, 800 and 1000 Amps. The set comes in a black leatherette covered case complete with original key. The foam rubber inside the case lid it deteriorated but functional. The foam rubber in the case holding the base and the meters is in good condition as is the outside of the case. The base and meters are in excellent condition.

\$25 plus UPS VersaPak packing and shipping from San Francisco 94110.

Dick Dillman, W6AWO
Chief Operator at K6KPH of the Maritime Radio Historical Society
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Message-ID: <002501bec6e5\$7e603fc0\$245a2299@default>
From: "Paul Bernhard Sr." <w2tu@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>

Subject: 30L1 help

Date: Mon, 5 Jul 1999 08:54:16 -0400

Hi again.

No response to the last query but I will try one more time. Can anyone send me the basic instructions for tuning the 30L1 with the KWM2A? I have never worked with an amp with the bridge type tuning and don't want to blow my new 811A's! Also need to know what plate & Grid current values I should be getting.

Thanks in advance for any info.

Paul B. W2TU

w2tu@email.msn.com

End of BOATANCHORS Digest 2599

>From ???@??? Tue Jul 06 04:56:11 1999

Message-Id: <199907060310.d663Ag012150@sco.theporch.com>

Date: Mon, 5 Jul 1999 22:10:24 CDT

From: Old Tube Radios <boatanchors@theporch.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: BOATANCHORS digest 2600

BOATANCHORS Digest 2600

Topics covered in this issue include:

- 1) Case against random twiddling
by cswiger <cswiger@wilma.widomaker.com>
- 2) Nickel cadmium battery
by N5CM@aol.com
- 3) ADMINISTRIVIA: Using The Archives
by listown@jackatak.theporch.com (Mail List Owner)
- 4) ART-13s in Austin, TX
by Sound Practices <sp@eden.com>
- 5) Re: Paint colors, and why they change...
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 6) Another BA Tube Goes AUDIO!
by David Stinson <arc5@ix.netcom.com>
- 7) Milled (?) Lettering in Wrinkle Paint
by David Stinson <arc5@ix.netcom.com>

- 8) Re: Milled (?) Lettering in Wrinkle Paint
by "Chuck O'Neal" <coneal@ma.ultranet.com>
- 9) Re: Another BA Tube Goes AUDIO!
by "Chuck O'Neal" <coneal@ma.ultranet.com>
- 10) Wire Specs
by "Jay H. Miller" <jmiller@teleteam.net>
- 11) Re: Milled (?) Lettering in Wrinkle Paint
by David Ross <ross@hypertools.com>
- 12) Knobs
by "Lloyd A. Scott, Jr." <wpul1130@concentric.net>
- 13) TRADE: Drake TR-7 Station --> Boatanchor Receivers
by "Tony" <tony@bright.net>
- 14) FS: TYPE 80 TUBES
by David Stinson <arc5@ix.netcom.com>
- 15) Re: Milled (?) Lettering in Wrinkle Paint
by AAFRadio@erols.com
- 16) FS/FT: PRT4 A / PRR 9
by CEMILTON@aol.com
- 17) Re: Milled (?) Lettering in Wrinkle Paint
by "Arden Allen" <gumbear@pacbell.net>
- 18) Re: Milled (?) Lettering in Wrinkle Paint
by "Roberta J. Barmore" <rbarmore@indy.net>

Date: Mon, 5 Jul 1999 10:49:39 -0400 (EDT)
From: cswiger <cswiger@wilma.widomaker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Case against random twiddling
Message-ID: <Pine.BSF.3.96.990705102826.4391B-100000@wilma.widomaker.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang -

Having a few extra hours on this holiday weekend I spent some quality time with Granny's Zenith 6D525, 6 tube set (with octals like 12J7, 12SA7, 12SQ7 etc). Now I'd previously re-cap'd it but tried to align it just by twisting IF cans while listening to DX and eventually giving up. Hahaha. Today, we did it the REAL way, trace the 12SA7 and find the osc grid, ground it and after hunting w/ a generator found the IF lost in space somewhere around 600Kc, hee. Of course with trimmer caps for IF adjustment it's easy to get off the mark real fast. So we walked it back down to 455 (clearly marked on the can's, no docs) and found a setting w/ gain that didn't squeel and left it there, pulled the grounding clip and it was right on a WNIS 790 Rush Limbaugh 'best of' program. The osc trimmer didn't have much effect so I just left 790 on 900Kc (altho, as Molly told Fibber, it is illegal to change a BC transmitters freq.). Thank goodness for NIST and accurate measurements.

Chuck
kb4new
cswiger@widomaker.com

From: N5CM@aol.com
Message-ID: <9347d390.24b224b5@aol.com>
Date: Mon, 5 Jul 1999 11:09:41 EDT
Subject: Nickel cadmium battery
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Gang,

Can someone tell me how to resurrect my nickel cadmium battery? Years ago, it was explained to me that these batteries have a "memory" and you must completely discharge them before recharging otherwise it will foul up the process. You must charge them completely, not half way, etc.

Well, somehow mine will give a bright light from the flashlight for about one second, comes on bright and dims down within two or three seconds . It will repeat this for weeks when I try to use it.

How do I rescue it??? It is a SKIL Flexi CHARGE 3.6 Volts rechargeable, Cat. No. 92940.

It is from SKIL set consisting of a flashlight and a cordless screwdriver.

Any help greatly appreciated,

Ken....N5CM....

Message-Id: <199907051615.d65GF3105634@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Using The Archives
Date: Mon, 5 Jul 99 11:15:02 CDT

Gang-

!!!THIS INFORMATION HAS CHANGED!!!!

!!!SAVE THIS FILE FOR FUTURE REFERENCE!!!!!!

This periodic post is designed to help everyone gain more value from their boatanchors subscription.

Often I receive an email request, or I read on the list, of someone who is aware there is an archive available with some special files with special information that is of a more permanent nature than a post to the list, but who is unaware of how to retrieve these gems.

In the archives, there are cross-reference tables for Tubes, Military Equipment Nomenclature, suggestions for restorations and modifications to our beloved fire bottle rigs, and some wonderful stories of real adventures and the people involved.

These files may be accessed by the Web... quickly and easily.
These files can also be accessed by email.

For WWW access:

- go to <http://www.theporch.com>
- select "ListProc Web Interface"
- on your first time there, click "Register For Full Account"
- follow the instructions, and BE SURE you use the email address that you have your BoatAnchors mail addressed to -- this interface will work ONLY for members of the list!

Once registered, you can:

- search the archives of previous posts (so far we haven't loaded all the previous posts online, but that is in the works;
- download the index of files;
- retrieve individual files
- manage your subscription via the web interface

AWESOME!

For email access:

Step One:

- send an email (leave the subject blank, or, if your mailer requires a subject, type a single character, like "a" in the subject box) to:

listproc@sco.theporch.com

Step Two:

- in the body type:

index boatanchors

NOTE: The index *includes* all the previous articles now available through the web interface, so the index is HUGE and difficult to search -- the web interface is much easier.

Step Three:

after checking out the index for files of interest, and finding the one or more you want to have sent to you, send another email to:

listproc@sco.theporch.com

and, in the body, type:
get boatanchors file.name

where you substitute the name of the file from the index for "file.name"

This should get you off to a good start. If you encounter any problems, please let me know at the address below.

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

"Il n'y a que les idiots qui ne changent jamais d'idee"

Mon Jul 5 11:15:00 CDT 1999

Date: Mon, 5 Jul 1999 12:15:58 -0500 (CDT)
From: Sound Practices <sp@eden.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ART-13s in Austin, TX
Message-ID: <Pine.BSI.4.05L.9907051215030.14090-1000000@matrix.eden.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a few restorable ART-13s for pick up only in Austin TX. Actually, can drive for delivery within reasonable distance from Austin, but can't pack and ship these hefty suckers.

If interested, e-mail or call 512-467-0130 for more info.

Tnx Joe N5KAT

Date: Mon, 05 Jul 1999 11:45:33 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabasca.ca>
Subject: Re: Paint colors, and why they change...
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>, midshires@cix.co.uk

Message-id:

<Pine.PMDF.3.95.990705113838.541163699B-1000000@devax.admin.athabascau.ca>

MIME-version: 1.0

Content-type: TEXT/PLAIN; charset=US-ASCII

On Fri, 2 Jul 1999, Barry L. Ornitz wrote:

> Unfortunately, nature has given us a limited number of colors to
> choose from with such inorganic pigments. So most of the newer
> pigments and dyes are synthetic organic molecules. These have a
> much shorter life.

An additional comment on this. You will note all the wierd and wonderful colours that cars now come dressed in. Not long ago those colooours were not available because the could not be made of sufficiently robust pigments and now many of those colours are available now because of the clearcoat on top which filters the light enough to give the colour some longevity.

We bought a new car (first time and hopefully the last time) two years ago and my wife refused all fancy colours and insisted on green because she said that wierd colours get tiresome especially after they fell out of fashion and when intersperced with holes and rust splotches in 15 years would look hideous. Clever girl. We did not even explore the likelihood of the colour having any resemblance to the original after 15 years of abuse.

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Message-ID: <3781061E.35BE81DB@ix.netcom.com>

Date: Mon, 05 Jul 1999 14:23:10 -0500

From: David Stinson <arc5@ix.netcom.com>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Another BA Tube Goes AUDIO!

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

If you like Command Sets, better put a lock on your storage shed!
The audio crowd over in Asia has discovered the 1626 triode.
Won't be long before we hear how sonically wonderful
the "Navy" stamped 1626 is over the
common "Army" or JAN types.... And the ones with black bases!
What?? You don't KNOW what makes them special?
We'll discuss it over our caviar and cocktails while listening
to the new quad 845 no-feedback amp at Larz's flat in Long Beach.

I guess one of the audio "gurus" has finished with his last cases of 50s and 45s, so now he's singing the praises of the 1626, of which he just happens to have several thousand "Navy" types in his warehouse ;-).

73 DE Dave AB5S

Message-ID: <37810F11.FB710138@ix.netcom.com>
Date: Mon, 05 Jul 1999 15:01:21 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Milled (?) Lettering in Wrinkle Paint
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you've ever looked at the top of a Command Set receiver or transmitter painted black wrinkle, you'll notice tube location lettering in the paint.

The paint seems to be "milled" or perhaps stamped with the lettering while it's still pliable. The bare chassis shows through the very fine letters, which are recessed into the wrinkled surface as though cut with a very, very fine bit.

Does anyone know for certain how this was done?

TNX ES 73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Message-ID: <018801bec722\$c328d080\$6222da18@coneal.ne.mediaone.net>
From: "Chuck O'Neal" <coneal@ma.ultranet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Milled (?) Lettering in Wrinkle Paint
Date: Mon, 5 Jul 1999 16:12:52 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It was engraved (milled). Very common technique for labeling bakelite as well and used often on metals. HP used this technique on most of their earlier test gear.

Quite resilient. The other technique was etching which results in a similar appearance but "softer" due to the isotropic behavior of liquid etchants. Chuck...K1KW

-----Original Message-----

From: David Stinson <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Monday, July 05, 1999 4:05 PM
Subject: Milled (?) Lettering in Wrinkle Paint

>If you've ever looked at the top of a Command Set
>receiver or transmitter painted black wrinkle, you'll
>notice tube location lettering in the paint.
>
>The paint seems to be "milled" or perhaps stamped
>with the lettering while it's still pliable.
>The bare chassis shows through the very fine letters,
>which are recessed into the wrinkled surface as though cut
>with a very, very fine bit.
>
>Does anyone know for certain how this was done?
>
>TNX ES 73 DE Dave Stinson AB5S
>arc5@ix.netcom.com
>

Message-ID: <019301bec724\$6b1d8780\$6222da18@coneal.ne.mediaone.net>
From: "Chuck O'Neal" <coneal@ma.ultranet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Another BA Tube Goes AUDIO!
Date: Mon, 5 Jul 1999 16:24:43 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I always suspected that this was a "created" market. Glad to see that I'm not as paranoid as I thought :) Now to find a two more VT-4C's (211) for my BC-375. This search has really made me painfully aware of the impact of the "glass audio" crowd on prices for tubes you couldn't give away a few years ago.

About a month ago I had the "opportunity" to hear one of these amps built

with 4 211's
in a single ended class A amp. I was most unimpressed. I don't get it.
Sounded terrible.
73,
Chuck...K1KW

-----Original Message-----

From: David Stinson <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Monday, July 05, 1999 3:27 PM
Subject: Another BA Tube Goes AUDIO!

>If you like Command Sets, better put a lock on your storage shed!
>The audio crowd over in Asia has discovered the 1626 triode.
>Won't be long before we hear how sonically wonderful
>the "Navy" stamped 1626 is over the
>common "Army" or JAN types.... And the ones with black bases!
>What?? You don't KNOW what makes them special?
>We'll discuss it over our caviar and cocktails while listening
>to the new quad 845 no-feedback amp at Larz's flat in Long Beach.
>
>I guess one of the audio "gurus" has finished
>with his last cases of 50s and 45s, so now he's singing the praises
>of the 1626, of which he just happens to have several thousand
>"Navy" types in his warehouse ;-).
>
>73 DE Dave AB5S
>

Message-Id: <103130300b3a6cc6e92a0@[199.34.24.12]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 5 Jul 1999 15:58:00 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Jay H. Miller" <jmiller@teleteam.net>
Subject: Wire Specs

Anybody know the particulars and modern counterpart of the following
hook-up wire specification (circa 1954):

AN-J-C-48

Thanks!

***** #*****
Jay H. Miller, KK5IM Dallas, Texas

The Pocket Guide to Collins Amateur Radio Equipment
Coming this Summer: A Pictorial History of Collins Amateur Radios

ARRL * AMI#846 * DXCC

E-Mail: jmiller@teleteam.net Home Page: <http://www.teleteam.com/~jmiller/>

***** Proud to be 100% Macintosh since 1984! *****

Message-Id: <Version.32.19990705130844.00f607e0@mail.willapabay.org>

Date: Mon, 05 Jul 1999 14:20:55 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: David Ross <ross@hypertools.com>

Subject: Re: Milled (?) Lettering in Wrinkle Paint

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Dave & the gang -

At 03:01 PM 7/5/99, David Stinson wrote:

>If you've ever looked at the top of a Command Set
>receiver or transmitter painted black wrinkle, you'll
>notice tube location lettering in the paint.
>
>The paint seems to be "milled" or perhaps stamped
>with the lettering while it's still pliable.
>The bare chassis shows through the very fine letters,
>which are recessed into the wrinkled surface as though cut
>with a very, very fine bit.
>
>Does anyone know for certain how this was done?

I've seen three different lettering styles on Command Set gear.

- Apparently, the most common style is the one Dave describes. I had figured that it was done just the way Dave mentions - "as though cut with a very, very fine bit", possibly in a pantograph engraving machine.
- Some Command Set gear was done with simple white paint silkscreen on the black wrinkle-finish paint.
- I have one piece here, a C-43/ARC-5 (7461-WF-43, built by CDK (who is that?)) control head with a bakelite label. The lettering on it was stamped in from the inside of the control head, but in L<->R reversed lettering. The outside of the control head now has the 'positive' lettering in place as raised letters. The head then received it's usual coat of black wrinkle paint. The raised lettering was then polished or sanded and appears as bare aluminum lettering which is slightly raised above the black wrinkle paint surface.

73

Dave Ross N7EPI ross@hypertools.com

Message-ID: <37812A58.FD82DACF@concentric.net>
Date: Mon, 05 Jul 1999 14:57:44 -0700
From: "Lloyd A. Scott, Jr." <wpul11130@concentric.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Knobs
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings All: I am restoring two Audio Consoles and in need of knobs for them. (1) RCA 76B2, 1946 vintage, and a Raytheon also a 1946 vintage. I need both the Large Skirted knobs and the smaller ones. Any color will do. The earlier Gates used a similar knob. Also need manuals for both. Many thanks for the help.
Lloyd

Message-Id: <199907052323.TAA04216@sparticus.bright.net>
From: "Tony" <tony@bright.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Mon, 5 Jul 1999 19:21:08 -0400
Subject: TRADE: Drake TR-7 Station --> Boatanchor Receivers

Hi All,

I have a very nice Drake TR-7 station that I wish to swap for Boatanchor gear to add to my collection. I'm especially interested in an R-390 or R-390A, preferrably reworked and in a cabinet, that I can use in my office.

The TR-7 is in excellent cosmetic and operating condition. I purchased a new cabinet from Drake earlier this year. The TR-7 has the AUX-7 board installed, which provides coverage of 30 Meters, 19 Meters SWBC, 17 Meters, 12 Meteres, the lower part of 10 Meters, and from 0 to 1500 kC to cover VLF and the Broadcast Band. The TR-7 has the stock sideband filter and a 400 kC (I think) CW filter. An aftermarket fan, similar to the FA-7, is also installed.

The PS-7 is likewise in excellent cosmetic and operating condition, and it has an aftermarket fan installed.

I have made many contacts with this station, and have found it to be

an excellent performer. I am only offering this set for trade because I recently swapped for another TR-7.

I would also be interested in a trade for a Hallicrafters SX-42, TMC GPR-90 or 92, and National HRO series receivers, with cash to even-up.

Let me know what you have to swap. Thanks!

73,

Tony N8SNC

Message-ID: <37815656.16AFC860@ix.netcom.com>
Date: Mon, 05 Jul 1999 20:05:26 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: TYPE 80 TUBES
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ten (10) type 80 Sholder Tube rectifiers.

Three National Union.

Three Sylvania.

One each Wizard, Silvertone, Philco, Kenrad, Raytheon.

All tested good+ on a TV-7 and white boxed.

I will throw in an extra or two just in case ;-).

\$70 plus \$4 shipping.

Thanks,
Dave Stinson
arc5@ix.netcom.com

From: AAFRadio@erols.com
Message-ID: <37815E81.6EA3B89B@erols.com>
Date: Mon, 05 Jul 1999 21:40:17 -0400
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Milled (?) Lettering in Wrinkle Paint

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David Stinson wrote:

- > If you've ever looked at the top of a Command Set
- > receiver or transmitter painted black wrinkle, you'll
- > notice tube location lettering in the paint.
- > The paint seems to be "milled" or perhaps stamped
- > with the lettering while it's still pliable.
- > The bare chassis shows through the very fine letters,
- > which are recessed into the wrinkled surface as though cut
- > with a very, very fine bit.

Chuck O'Neal is correct - it was engraved with a manual pantograph machine. CNC wasn't on the horizon back then. For the more esoteric minded, it was done with a straight sided milling graver .008" in diameter, judging from the inspection microscope. You can clearly see the milling marks at the bottom of the cut. Engraving brings its own set of restoration problems of course, from corrosion of the exposed aluminum, to flaking of the paint edges, to becoming filled with wax/oil and all sorts of disgusting debris. With a microscope and a *very* sharp dental instrument, one can clean out these channels and make a remarkable difference in the appearance.

What I have NOT discovered, however, is what kind of fixture the parts were held in to do the original engraving. Experimenting with my Hermes, maintaining the depth is fairly critical to achieve a cut through a somewhat variable paint thickness and then .003-.005" into the aluminum. With that pesky infinitely flexible .035" aluminum sheet in the command set covers, they had to use a superb clamping system with a hard backing to achieve any kind of consistency. Just another one of those ARC mysteries, I guess.

Another mystery is the decision mechanism for choosing engraving over photoetching - certain of the ARC-5 control boxes, all of the ARA/ATA boxes, and some of the SCR-274N boxes I've seen use the photoetched method, where paint was applied after etching the previously photoresist coated and light exposed aluminum, and then sanded or wiped away from the then-higher lettering. Anybody ever see the sanding being done? I'm still looking for info on what tool was used in this process, as well as the amount of time lapsing between painting and sanding. The time, and corresponding paint film strength, has been fairly critical in the trials I've conducted.

On other pieces of the command equipment engraving was used, including on those less numerous control boxes used for special applications, and of course all the prototypes. Why ARC etched some of the control boxes and not, say, the front panel of the transmitters, isn't at all clear.

It doesn't seem to be a production quantity factor. And Stromberg Carlson etched their TX front panels, but ARC didn't...go figure. I have never seen any silk screening on the WWII production, but it seems to have become more common on the postwar stuff, on the little 6" wide rack mount control heads, for instance.

73,
Mike Hanz KC4TOS

From: CEMILTON@aol.com
Message-ID: <760c8693.24b2c537@aol.com>
Date: Mon, 5 Jul 1999 22:34:31 EDT
Subject: FS/FT: PRT4 A / PRR 9
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="part1_760c8693.24b2c537_boundary"

--part1_760c8693.24b2c537_boundary
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I have the following for sale or trade:

- (2) AN/PRT 4A Transmitters with xtals installed for 51.0Mc
- (2) AN/PRR 9 Receivers
- (2) Headsets for receivers (in original boxes)
- (4) Transmitter slide assemblies
- (4) Lanyards
- (2) Receiver antennas
- (1) Manual TM-11-5820-549-12

These are Vietnam era field sets. Transmitters are about same size as todays modern HT's. Receivers were designed to clip to soldiers helmet and either the built in speaker OR the in-the-ear headset could be used. This set is a Tobyhanna Mil Depot re-build. Nice items for those just getting into collecting mil gear. Asking \$125 shipped CONUS from Florida. Trades for BA items considered.

Thanks

W4MIL
Chuck

--part1_760c8693.24b2c537_boundary
Content-Type: message/rfc822

Content-Disposition: inline

Return-Path: <>

Received: from rly-ya02.mx.aol.com (rly-ya02.mail.aol.com [172.18.144.194])
by air-ya01.mail.aol.com (v59.54) with SMTP; Mon, 05 Jul 1999
22:21:42 -0400

Received: from imo17.mx.aol.com (imo17.mail.aol.com [172.31.36.7])
by rly-ya02.mx.aol.com (8.8.8/8.8.5/AOL-4.0.0)
with ESMTP id WAA03319 for <CEMILTON@aol.com>;
Mon, 5 Jul 1999 22:21:42 -0400 (EDT)

Received: from localhost (localhost)
by imo17.mx.aol.com (8.8.8/8.7.3/AOL-2.0.0)
with internal id WAB16504;
Mon, 5 Jul 1999 22:21:42 -0400 (EDT)

Date: Mon, 5 Jul 1999 22:21:42 -0400 (EDT)

From: Mail Delivery Subsystem <MAILER-DAEMON@aol.com>

Subject: Returned mail: User unknown

Message-Id: <199907060221.WAB16504@imo17.mx.aol.com>

To: CEMILTON@aol.com

MIME-Version: 1.0

Content-Type: multipart/report; report-type=delivery-status;
boundary="WAB16504.931227702/imo17.mx.aol.com"

Auto-Submitted: auto-generated (failure)

--WAB16504.931227702/imo17.mx.aol.com

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

The original message was received at Mon, 5 Jul 1999 22:19:17 -0400 (EDT)
from root@localhost

*** ATTENTION ***

An e-mail you sent to an Internet destination could not be delivered.

The Internet address is listed in the section labeled:

"----- The following addresses had permanent fatal errors -----".

The reason your e-mail could not be delivered is listed in the section labeled:

"----- Transcript of Session Follows -----".

The line beginning with "<<<" describes the specific reason your e-mail could not be delivered. The next line contains a second error message which is a general translation for other e-mail servers.

Please direct further questions regarding this message to the e-mail administrator or Postmaster at that destination.

----- The following addresses had permanent fatal errors -----
<baswaplist@qth.net>

----- Transcript of session follows -----
... while talking to ns3.qth.net.:
>>> RCPT To:<baswaplist@qth.net>
<<< 550 <baswaplist@qth.net>... User unknown
550 <baswaplist@qth.net>... User unknown

Final-Recipient: RFC822; baswaplist@qth.net
Action: failed
Status: 5.1.1
Remote-MTA: DNS; ns3.qth.net
Diagnostic-Code: SMTP; 550 <baswaplist@qth.net>... User unknown
Last-Attempt-Date: Mon, 5 Jul 1999 22:21:42 -0400 (EDT)

Received: from CEMILTON@aol.com
by imo17.mx.aol.com (IM0v20.21) id yQKV00791 (3939)
for <baswaplist@qth.net>; Mon, 5 Jul 1999 22:19:17 -0400 (EDT)
Return-path: CEMILTON@aol.com
From: CEMILTON@aol.com
Message-ID: <ef139d0d.24b2c1a4@aol.com>
Date: Mon, 5 Jul 1999 22:19:16 EDT
Subject: FS: PRT4A/PRR9
To: baswaplist@qth.net
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Mailer: AOL 4.0 for Windows 95 sub 13

Have the following for sale:

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for BA items considered.

Thanks

W4MIL

Chuck

--WAB16504.931227702/imo17.mx.aol.com--

--part1_760c8693.24b2c537_boundary--

Message-Id: <199907060241.TAA21501@mail-gw.pacbell.net>

From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Milled (?) Lettering in Wrinkle Paint

Date: Mon, 5 Jul 1999 19:42:20 -0700

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

>With that pesky infinitely flexible .035" aluminum sheet in
> the command set covers, they had to use a superb clamping system with a
> hard backing to achieve any kind of consistency.....

Perhaps the panels were "clamped" down on a vacuum mandril, a block full of holes that held the work flat while keeping it in place.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Mon, 5 Jul 1999 22:11:52 -0500 (EST)

From: "Roberta J. Barmore" <rbarmore@indy.net>

To: Old Tube Radios <boatanchors@theporch.com>

cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Milled (?) Lettering in Wrinkle Paint

Message-ID: <Pine.SUN.4.10.9907052129290.11877-1000000@indy1>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Mike wonders about the clamping method used to mill lettering. I'm just guessing here, but if I had to clamp flat pieces of thin metal to mill letters into them, I'd be tempted to look to Hoover--and not J. Edgar! (I suppose there really *is* nothing like a Hoover if you're dealing with dirt, but that's another sort of story).

A pretty simple system could be set up, using pins at the location(s) of any holes already drilled through for locating the panel or chassis with fair accuracy and a suction system to hold 'em down. The pantograph itself could be basic, using pre-made "stencils" in the guide--with only a little training, the operator could churn out the finished pieces rapidly. Once you get the work held down *securely* in a known location, the rest isn't difficult, akin to setting the depth stop of a drill press.

...The suction fixture itself isn't much, a *flat* and thick plate with a *lot* of small holes through it to a chamber below, and plumbing from there off to the vacuum pump. RCA used similar notions in the manufacture and assembly of television picture tubes not too long after the war. (I dunno--might take a good machinist a day or so to make the fixture, depending on just how flat is flat enough).

The neat trick here is, if you design the fixture properly, the pressure is pretty much uniform--no distortion at the clamping points! Just miles and miles of atmosphere, pushin' down on the work. (Old videotape machines used the reverse trick, airflow *out* of a large number of small holes, to create low-friction tape guides).

Glitches, you have to use another vacuum system (or a filter & some plumbing off the main system) to pick up the shavings--little hose that tracks with the cutter--or you spend half the time cleaning up the vacuum clamp fixture. (May be a way around that, though--hole size vs. shaving size and keeping the crud outta the vacuum pump, the latter being a trick Hoover is good at). (No, not the FBI one).

About silk-screening, Hallicrafters came up with a neat version using blotter pads loaded with paint and mimeograph-type stencils cut with a Leroy lettering pantograph or similar means. (Those of us old enough to remember mimeographs will be well aware that an impact typewriter does a good job). Invented during WW II and used for prototypes, etc. (And if you ask me, this beats dry-transfer lettering!) I'd be surprised if you can even *find* the right kind of stencil stuff now. Maybe somebody better at picking the correct material could come up with a substitute--has to be cut cleanly (or at least become permeable) when subjected to pressure. Perhaps thin drafting film and a soft backing?

Anyway, they loaded up the blotter with "just enough" paint (trial and error) and stuck the stencil to it; from there on, it's almost like rubber-stamping (in the same manner intaligo is like a woodcut, at least). Or you could stick the stencil to the panel. Go easy on the paint! (The familar Signal Corps and Navy orange stamps *were* done with a rubber-stamp kind of deal, as far as I know--one of the big-league green-radio folks wrote about redoing 'em in Electric Radio awhile back).

73,

--Bobbi

(Yes, I have the soul of a machinist--it's right here, in the scale-model steam boiler on my desk; poor fellow said he had no use for it when the

last of the big locomotives was retired. Used to have the heart of an artist but the prevailing sensibility shifted and now it's just a craftperson's heart--a pity, the container for it is quite decorative. Alas, a telegrapher's wrist, too--you can't hardly *give* those away!)

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

End of BOATANCHORS Digest 2600
